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(54) CLAY-ORGANIC COMPOSITE COMPOSITION AND ITS USE

(57)Abstract:

PURPOSE: To obtain a compsn. which is a thixotropic sol or gel by dispersing a specific clay-organic composite in a mixture of a highly polar org. solvent with water.

CONSTITUTION: This clay-org. composite is obtd. by introducing a quaternary ammonium ion of formula I [wherein R₁ is H or 1-30C alkyl; R₂ and R₃ are each (CH₂CH₂O)_nH or 1-30C alkyl; R₄ is (CH₂CH₂O)_nH; and n ≥ 2] or formula II (wherein R₅ is 1-4C alkyl; and R₆, R₇, and R₈ are each 6-14C alkyl) between the layers of a swellable layered silicate. The composite is dispersed in a mixture of a highly polar org. solvent with water, giving the objective composite compsn. which is a thixotropic, highly viscous sol or gel. The compsn. has improved dispersibility and viscosity even in a solvent having a wide range of water content and is excellent in stability and properties in the use. A gel obtd. by changing the type and amt. of the solvent is usable in many applications, e.g. in cosmetics. a remover for make-up cosmetics, a release agent for coating film, and an adhesive.

